

Energy Efficiency and Energy Policy

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50 Years of Automobile Improvements

- 1960s Ford Falcon
 - 90 hp
 - ~ 20 mpg
 - 0-60 mph ~ 20 sec
- 2014 Ford Fusion Hybrid
 - 188 hp
 - 0-60 mph in 8.5 sec
 - 40+ mpg
 - 3677 lb
- Fusion Hybrid vs Falcon
 - Heavier car
 - Twice the power
 - Twice the acceleration
 - Half the gas



Impact of Auto/Truck Efficiency Increases

- Autos/light trucks used energy = Energy Imports in 2012



- **AUTO/TRUCK EFFICIENCY IMPROVEMENTS have CUT U.S. ENERGY IMPORTS IN HALF**

How much of this would have happened without

- Corporate Average Fuel Efficiency (CAFÉ) Standards?
- Hybrid tax credits?

Refrigerator Efficiency



- These refrigerators
 - Used **THREE** times as much electricity as today's refrigerators
 - Were smaller
 - Were more expensive

How Much Energy Do Refrigerators Use?

- Refrigerators used 2.9 Quadrillion (Quads) Btu in 2013
- More than HALF Texas oil production
- REFRIGERATOR IMPROVEMENTS save MORE ENERGY THAN ALL THE OIL TEXAS PRODUCES!

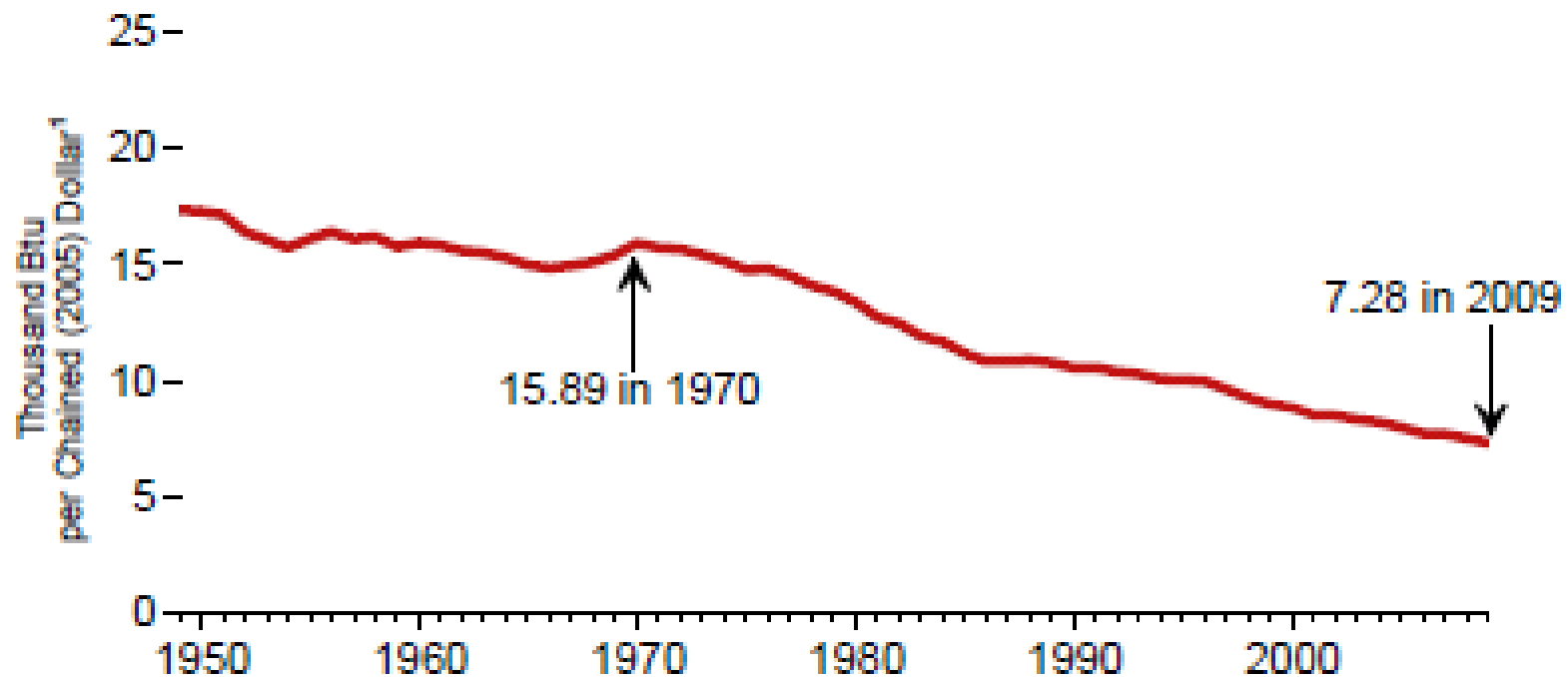


How much of this would have happened without

- Federal Appliance Standards?

How Important is Improved Energy Efficiency in the U.S. Economy?

Figure 3. Energy Consumption per Real Dollar¹ of Gross Domestic Product



\$1.4 Trillion/Year Saved by Energy Efficiency

What does this mean?

- \$50,000/yr for EVERY TEXAN
- \$5,000/year for EVERY AMERICAN

Future Energy Efficiency

- ESL is developing a revolutionary new Air Conditioner that could ultimately save
 - \$2 Billion/year in Texas
 - \$15 Billion/year in the U.S.
 - \$1 Trillion/year worldwide

How Important is Good Energy Policy AND Good Technology?

- How Important is CATEE?

How Important is Good Energy Policy AND Good Technology?

- How Important is CATEE?
- To THEIR Future?



CATEE 2014: Clean Air Through Efficiency Conference, Dallas, Texas Nov. 18-20

WELCOME TO CATEE!!

